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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/966,783	09/28/2001	Stanko Bodnar	CRD-0967	5435
27?77 75	90 02/15/2005		EXAMINER	
PHILIP S. JOHNSON			CHORBAJI, MONZER R	
JOHNSON & JOHNSON ONE JOHNSON & JOHNSON PLAZA			ART UNIT	PAPER NUMBER
NEW BRUNSWICK, NJ 08933-7003			1744	

DATE MAILED: 02/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/966,783	BODNAR ET AL.			
Office Action Summary	Examiner	Art Unit			
	MONZER R CHORBAJI	1744			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>28 September 2001</u> .					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) <u>1-40</u> is/are pending in the application	•	•			
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-40</u> is/are rejected.					
7)⊠ Claim(s) <u>20</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on 28 September 2001 is/a	are: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority document	• •				
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
• •	, , , ,	ď			
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)	"□	(DTO 440)			
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 116162; 415 102; 713 102; 1112 1103; 2124 64; 6) Other:					

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DETAILED ACTION

This general office action is in response to the application filling date of 09/28/2001 Claim Objections

1. Claim 20 is objected to because of the following informalities: In claim 20, numbered line 21; applicant mentions the phrase "a first predetermined period"; however, such a phrase was already recited in numbered line 14. The "first predetermined period" limitation recited in numbered line 21 should be renamed "second predetermined period". The same applies to periods mentioned in numbered lines 26 and 28 of claim 21. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that

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the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary.

Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

5. Claims 1-10, 20, 21 and 28-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muth et al (U.S.P.N. 5,472,702) in view of McGowan, Jr. (U.S.P.N. 5,749,203).

With respect to claims 1 and 20, the Muth reference teaches the following: positioning packaged (col.1, lines 19-24, col.2, lines 24-26 and col.5, lines 5-9), drug coated medical device in a sterilization chamber (col.7, line 38), increasing and maintaining the temperature in the sterilization chamber in the range from 25-35 degrees Celsius and the relative humidity in the range from 40%-85% for a predetermined time period (col.6, lines 43-46), injecting a sterilization agent at a predetermined concentration into the chamber and maintaining the temperature in the range from 25-35 degrees Celsius and the relative humidity in the range from 40%-85% for a predetermined time period (col.7, table, lines 54-59) and removing the sterilization agent from the chamber through a plurality of vacuum washes over another predetermined time period by maintaining the chamber at a temperature in the range of 30-40 degree Celsius (col.7, table, Exhaust, lines 66-67 and col.8, lines 1-2). With respect to claims 1 and 20, the Muth reference fails

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to teach the following: applying another preconditioning step, creating a vacuum and using nitrogen washes steps. The McGowan reference teaches that preconditioning medical articles is known in the art of ethylene sterilization (col.1, lines 26-27 and lines 36-44). The McGowan reference further teaches that creating a vacuum (col.1, lines 52-64) and applying nitrogen rinses (col.2, lines 12-14) are also conventional steps in such an art. As a result, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of the Muth reference to include an additional preconditioning step since at elevated temperatures ethylene oxide gas is thought to be more molecularly active and therefore performs more effectively as a sterilizing agent as taught by the McGowan reference (col.1, lines 36-40).

With respect to claims 3, 7, 10, 28 and 31, the Muth reference teaches the following: the first predetermined period is three hours (col.6, lines 45-46), removing the sterilant from the packaged drug coated medical device (col.7, table, exhaust) and a biocompatible vehicle or coating that includes an agent in therapeutic dosages (col.8, lines 27-31).

With respect to claims 2, 4-6, 8-9, 21 and 29-30, the McGowan reference teaches the following: reducing the pressure in the chamber to under 10 kPa (col.10, lines 37-45), injecting gaseous ethylene oxide at a concentration from 200-1200 mg/l over a second predetermined period of 6 hours (col.2, lines 5-9), injecting ethylene oxide at a concentration from 800-950 mg/l over a second predetermined period of 6 hours (col.2, lines 5-9), removing the sterilant through a series of alternating vacuum and nitrogen injection stages over a third

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predetermined period from 2-48 hours (col.2, lines 12-14 and lines 60-65), removing the packaged drug coated medical device from the chamber and positioning it in a controlled environment (col.2, lines 18-22), circulating ambient air (col.2, lines 13-14), maintaining the temperature from 10-70 degrees Celsius (col.2, lines 21-22) over time period from 1hour-2 weeks (col.2, lines 64-65) or over time period from 12 hours-7 days (col.2, lines 64-65) and placing the packaged drug coated medical device in a preconditioning chamber (col.1, line 27) then maintaining the temperature from 10-70 degrees Celsius (col.1, lines 31-32) and the relative humidity from 20%-95% (col.1, lines 32-33) over a time period of 1 hour-5 days (col.1, lines 34-35).

6. Claims 22-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muth et al (U.S.P.N. 5,472,702) in view of McGowan, Jr. (U.S.P.N. 5,749,203) and further in view of Popescu et al (U.S.P.N. 5,464,580).

With respect to claim 22, both the Muth reference and the McGowan reference fail to disclose a temperature range and a time interval as recited in the claim; however, both disclose a relative humidity range value that falls within the recited range, for example, the McGowan reference teaches preconditioning at a relative humidity from 40%-80% (col.1, lines 31-32). The Popescu et al reference, which is in the art of sterilizing medical equipment using ethylene gas, teaches preconditioning at 25 degree Celsius for a time period from 60-90 minutes (col.5, lines 24 and 35-36). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of the Muth reference by adjusting the temperature range and the

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exposure time interval since such modifications is a matter of optimization as evidenced by the Popescu reference.

Claims 23-27 have already been addressed above with respect to claims 2-6.

7. Claims 11-13 and 32-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muth et al (U.S.P.N. 5,472,702) in view of McGowan, Jr. (U.S.P.N. 5,749,203) and further in view of Rich (U.S.P.N. 6,025,414) and Pharriss et al (U.S.P.N. 3,675,647).

With respect to claims 11-12 and 32-33, both the Muth reference and the McGowan reference fail to teach using the polymers poly (ethylene-co-vinyl acetate) and polybutylmethacrylate as coating material; however, the Rich reference, which is in the art of designing polymeric compositions to be used in implants, teaches that poly (ethylene-co-vinyl acetate) is incorporated into layers of implants (col.3, lines 36-37 and col.4, line 10). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify composition of the medical devices coated in the Muth reference to include the polymer poly (ethylene-co-vinyl acetate) as taught by the Rich reference since it is known for it resiliency (col.4, lines 2-3).

With respect to claims 11-12 and 32-33, the Rich reference fail to teach using the polymer polybutylmethacrylate; however, the Pharriss reference, which is in the art of designing implant devices teaches using polybutylmethacrylate (col.3, line 63). Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify composition of the implants

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in the Rich references include the polymer polybutylmethacrylate as taught by the Pharriss reference since it is known to be biologically acceptable flexible, resilient, polymeric material (col.3, lines 59-60).

With respect to claims 13 and 34, the Muth reference teaches incorporating the agent into the first layer (col.8, lines 28-30).

8. Claims 14-19 and 35-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Muth et al (U.S.P.N. 5,472,702) in view of McGowan, Jr. (U.S.P.N. 5,749,203) and further in view of Gingras (WO 00/38754).

With respect to claims 14-19 and 35-40, both the Muth reference and the McGowan reference fail to teach incorporating polyfluoro copolymers made up of first moiety and second moiety into medicated medical devices; however, the Gingras reference, which is in the art of designing biocompatible stents teaches combining various biocompatible polyfluoro copolymers with polyfluoro monomers (page 10, lines 5-10) in coating layers for stent such that the coating layers are made of first and second moieties that is intrinsically combined in various concentration ranges. Also, the Gingras teaches the use of hexafluoropropylene (page 10, line 10). As a result, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify composition of the coatings for medical devices in the Muth reference to include hexafluoropropylene as taught by the Gingras reference since such a compound is known to be biocompatible (page 10, line 5).

Conclusion

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Any inquiry concerning this communication or earlier communications from 9.

the examiner should be directed to MONZER R CHORBAJI whose telephone

number is (571) 272-1271. The examiner can normally be reached on M-F 6:30-

3:00.

10. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, ROBERT J WARDEN can be reached on (571) 272-1281.

The fax phone number for the organization where this application or proceeding

is assigned is 703-872-9306.

11. Information regarding the status of an application may be obtained from

the Patent Application Information Retrieval (PAIR) system. Status information

for published applications may be obtained from either Private PAIR or Public

PAIR. Status information for unpublished applications is available through

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

Monzer R. Chorbaji MRC **Patent Examiner**

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02/07/2005

ROBERT J. WARDEN, SR. SUPERVISORY PATENT EXAMINER

Sheet 7. Warden In.

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